
SGIP Quarterly Workshop

March 10, 2017

Hosted By:
SGIP PAs

- *Southern California Edison; Jim Stevenson, Virginia Velazquez*
- *Center for Sustainable Energy; Rebecca Feuerlicht, Mackenzie Romano, Jon Hart, Andi Woodall*
- *Southern California Gas Company; Rosie Magana, Nick Connell*
- *Pacific Gas & Electric Company; Brian Bishop, Ron Moreno*



Agenda

Welcome

Safety; emergency exits, duck & cover, CPR

Housekeeping; garbage/recycle, bathrooms

Agenda

- Background on key program changes from D.16.06.055
- Resolution E-4824, SCE's Advice Letter, March 7 Proposed Decision
- Deep Dive: New Budget, Incentive Step Process, Attrition, Waitlist/Closure, energy storage incentive calculation, metering and monitoring, app information
- West LA Basin information, lottery specs, maps
- Developer Cap information
- Minimum fuel blending requirement, calculation scenarios
- Participant Performance and Infractions
- Program Opening dates
- Energy Solutions Presentation; Application Submission in Database
- Discussion of ACR, Proposed Decision; storage operational rules



Program Opening Dates

“Soft Opening”

- Monday, April 10, 2017
- Applicants can log into the portal and begin working on applications

“Program Opening”

- Monday, May 1, 2017
- Applicants can submit applications for Step 1 funding



Key Program Changes from D.16.06.055

Goals Refined:

Environmental: Reduce GHGs; reduce criteria air pollutants; limitation of other environmental impacts (water use); facilitate integration of renewables.

Grid Support: Reduce/Shift peak demand; improve efficiency, reliability of T&D system; lower grid costs; provide ancillary services and; ensure reliability of DERs.

Market Transformation: Support technologies that have the potential to thrive in future years without rebates.

Lottery: Program remains first-come, first-served unless funds are fully allocated in a single day; then a lottery is used for application selection. Step pauses and prioritization rules now exist.



Key Program Changes from D.16.06.055

Budget: 75% energy storage with a 15% carve out for small residential projects; 25% generation with a 40% carve out for renewable generation.

Incentives: Wind, \$.90/W, Other Gen \$.60/W; Storage \$.50/Wh, \$.36/Wh w/ ITC. Storage steps decline by \$.05/Wh per step unless subscribed across all PAs w/in ten days; then the decline is \$.10/Wh.

Incentive Steps: Gen = 3 steps; Storage = 5 steps.

Technologies: No changes. Projects must emit less than the first-year emission rate for the program year it has applied (pass GHG screen of D15.11.027)

Biogas: Fuel Blending requirement starts at 10% in 2017. Then: 25% in 2018, 50% in 2019, 100% in 2020. [More on biogas in subsequent slides]



Key Program Changes from D.16.06.055

Project Size Caps: Generation: <1MW = 100%; 1-2MW = 75%; 2-3MW = 50%.
Storage: 2MWh = 100%; >2-4MWh = 50%; >4-6MWh = 25% of the incentive.

40% Manufacturer Cap replaced by 20% Developer Cap: Each application must include developer, parent company if applicable, all other info in new forms.

CA Manufacturer: changed from CA Supplier. New forms sent out recently.

Technologies used in a microgrid allowed; DC/AC agnostic

Storage Operation: 130 full discharge requirement for C&I; 52 for Resi

M&E Plan: Developed, hosted by the CPUC, Dec. 2016.



Resolution E-4824, SCE Advice Letter 3564

February 9, 2017, Energy Division issued Resolution E-4824 which approved the SoCalGas Joint Advice Letter 5049, with modifications.

February 23, 2017, SCE filed Tier 1 Advice Letter 3564, implementing changes and conforming the SGIP Handbook to the Resolution.

Changes made to:

biogas adder calculation (to be discussed)
list the zip codes in LADWP and West LA
service warranty
e-signatures
CA Manufacturer rules

peak demand estimation
sizing requirements
definition of Developer
monitoring requirements
pause period

Proposed Decision of Commissioner Rechtschaffen

Doubled budget per AB1637, 85% to large energy storage, 15% to renewable generation, no new energy storage operational rules.



Deeper Dive: New SGIP Budget (Pre-AB 1637)

The incentive budget will be set on April 1 and will include the sum of:

- 1) authorized incentive collections
- 2) funds from cancelled projects
- 3) application fee forfeitures in 2016.

Pre-AB 1637 Budget:

Authorized Incentive Collections

= 50% of PY 2016 collections + PY 2017 collections + PY 2018 collections + PY 2019 collections

= (\$38,595,000) + (77,190,000) + (77,190,000) + (77,190,000)

= \$270,165,000

Total incentive budget = \$270,165,000 + *sum of funds from cancelled projects + application fee forfeitures*



Deeper Dive: New SGIP Budget (Pre-AB 1637)

Total incentive budget will be split:

1) By Program Administrator

- ◆ Pacific Gas and Electric Company – 44%
- ◆ Southern California Edison Company 34%
- ◆ Center for Sustainable Energy – 13%
- ◆ Southern California Gas Company – 9%

2) Between generation, large energy storage, and small residential energy storage

- ◆ Large Energy Storage - 63.75%
- ◆ Small Residential Energy Storage – 11.25%
- ◆ Generation – 25%

3) Evenly across incentive steps

Deeper Dive: Incentive Step Process

Applications will be assigned an incentive rate and reviewed in the order in which they are received unless application submissions on a single day exceed available funding in a given Program Administrator's territory for a given budget and step, triggering a lottery.

Lotteries are to be conducted separately for large scale energy storage technologies, small residential energy storage technologies, and generation technologies by Program Administrator territory, as necessary.



Deeper Dive: Incentive Step Process

Once the database determines a there is enough demand to trigger a step change (by one or more projects), a pause period of no less than 20 days is initiated:

- 1) No new applications within the budget category are accepted.
- 2) Program Administrator may perform a pre-screen of applications.
- 3) After 10 days, Program Administrators will determine if the incentive level reduction for energy storage technologies shall increase from \$0.05/Wh to \$0.10/Wh based on statewide oversubscription for a given step.
- 4) If a lottery is conducted, a notification of the results of the lottery is sent to Applicants.
- 5) Applications that were not selected for funding in the current step through the lottery will be instructed on how to reapply for funding in the next step.
- 6) Projects that are only able to be partially funded within a certain step must choose to reapply or funding in the next step or claim the remaining funds in the current step.
- 7) The SGIP public website is updated with information on the new incentive rate(s), available funds, developer cap and the date of the next application submission opportunity.

Deeper Dive: Attrition, 'Wait List' and Program Closure

Funds from cancelled projects will be allocated to the Program Administrator's currently active incentive step. If the Program Administrator is in a pause period when attrition occurs, the funds will be placed in the next incentive step.

Once funds have been fully allocated in the final incentive step of a Program Administrator's given budget, applications will be placed on a wait list.

When there is enough attrition to fund wait-listed projects, wait-listed projects will be assigned an incentive rate in the last step and reviewed in the order in which they were submitted.

Administrators may continue accepting new applications until all incentive funds have been fully paid or until December 31, 2020 whichever comes first.



Electronic Signatures

- ◆ PG&E, SCE and CSE will allow verifiable electronic signatures on all program forms requiring signatures.
 - Reservation Request Form
 - Proof of Project Milestone Form
 - Incentive Claim Form
 - All required attestations and affidavit forms
- ◆ SoCalGas does not accept electronic signatures on the program provided forms listed above.
- ◆ All PAs will continue to accept electronic signatures on customer contracts.

Deeper Dive: Energy Storage Incentive Calculation

Storage incentives based on:

- **Energy capacity (kWh) – Incentive rate based on kWh**
- **Hours duration of the system**
- **Power capacity (kW) – Determines budget category and PBI**
- **Currently active step – declining rate per step**

(proposed) 2017 SGIP Handbook Sections 5.1.1 and 5.1.2 explain how to calculate kW and kWh

(proposed) 2017 SGIP Handbook Sections 5.2.1 and 5.2.2 describe incentive limitations based on hours duration and kWh capacity



Deeper Dive: Energy Storage Incentive Calculation

Storage incentives based on:

- **Energy capacity (kWh) – Incentive rate based on kWh**
- **Hours duration of the system**
- **Power capacity (kW) – Determines budget category and PBI**
- **Currently active step – declining rate per step**

The inputs for the incentive calculation will be taken from the manufacturer specifications for the energy storage system and any relevant power electronics (i.e. inverter)

Manufacturer specification sheets must be provided for the energy storage system and relevant power electronics to verify that the kW, kWh, and hours duration have been accurately calculated



Deeper Dive: Energy Storage Incentive Calculation

Calculating kWh:

kWh (AC/DC systems): nominal voltage * amp-hours * applicable efficiency

- Nominal Voltage in DC
- Amp-hours associated with the duration of discharge specified
- Applicable Efficiency - accounts for conversion, transformation, or other efficiency losses (Inverter CEC weighted efficiency, DC-DC converter efficiency)

Example:

Nominal Voltage: 12

Amp-Hours: 1000 (at 4 hour duration)

CEC Weighted Inverter Efficiency: 95%

$$12 * 1000 * .95 = 11,400 \text{ Wh or } \mathbf{11.4 \text{ kWh}}$$

Deeper Dive: Energy Storage Incentive Calculation

Calculating kW:

kW (AC/DC systems): kWh/hours duration

- The average power output over the specified duration
- Not necessarily the “nameplate capacity” of the system
- If there is a limiting factor, such as a smaller inverter, then this reduces the kW capacity

Example: (*Worksheet will be provided*)

Nominal Voltage: 12

Amp-Hours: 1000

Hours Duration: 4

Inverter Efficiency: 95%

$$(12 * 1000 * .95)/4 \quad \text{OR} \quad 11,400/4 = 2,850 \text{ w or } \mathbf{2.850 \text{ kW}}$$

Deeper Dive: Energy Storage Incentive Calculation

Incentive Limitation – Hours Duration

Energy storage incentives are reduced as the duration and energy capacity increase:

Hours Duration	Incentive Rate (Pct of Base)
0-2 hours	100%
>2-4 hours	50%
>4-6 hours	25%
>6 hours	0%

Energy Capacity (kWh)	Incentive Rate (Pct of Base)
0-2 MWh	100%
>2-4 MWh	50%
>4-6 MWh	25%
>6 MWh	0%

Deeper Dive: Energy Storage Incentive Calculation

Combining both incentive reductions produces:

>4-6 hours	25%	12.5%	6.25%
>2-4 hours	50%	25%	12.5%
0-2 hours	100%	50%	25%
	0-2 MWh	>2-4 MWh	>4-6 MWh

Both types of incentive reductions apply if the project has a duration longer than two hours AND an energy capacity greater than 2 MWh.

Deeper Dive: Energy Storage Incentive Calculation

Calculating the Incentive:

>4-6 hours	25%	12.5%	6.25%
>2-4 hours	50%	25%	12.5%
0-2 hours	100%	50%	25%
	0-2 MWh	>2-4 MWh	>4-6 MWh

Example:

5 kW, 20 kWh, 4 hour duration, step 1 (\$.50/Wh)

First two hours: $10,000 \text{ Wh} * \$0.50/\text{Wh} = \$5,000$

Second two hours: $10,000 \text{ Wh} * \$0.50/\text{Wh} * 50\% = \$2,500$

Total Incentive: $\$5,000 + \$2,500 = \$7,500$

*First two hours funded at 100%, second two hours funded at 50%

Deeper Dive: Energy Storage Incentive Calculation

Calculating the Incentive:

>4-6 hours	25%	12.5%	6.25%
>2-4 hours	50%	25%	12.5%
0-2 hours	100%	50%	25%
	0-2 MWh	>2-4 MWh	>4-6 MWh

Example:

2 MW, 4 MWh, 2 hour duration, step 1 (\$.50/Wh)

First two MWhs: $2,000,000 \text{ Wh} * \$0.50/\text{Wh} = \$1,000,000$

Second two MWhs: $2,000,000 \text{ Wh} * \$0.50/\text{Wh} * 50\% = \$500,000$

Total Incentive: $\$1,000,000 + \$500,000 = \$1,500,000$

*First two MWhs funded at 100%, second two MWhs funded at 50%

Deeper Dive: Equipment Specs – Application Information

Best Practices for Submitting Equipment Specifications and NRTL Certifications

Document	Requirement	Recommendation
Equipment Specifications	Manufacturer specifications for all major system components	If there are multiple documents, please compile these into one PDF for review
Commercial Availability	All eligible technologies must be certified for safety by a nationally recognized testing laboratory (NRTL).	Upload as an ad-hoc document. If certification is not complete or is not applicable for a technology, upload an exemption request for review.

Deeper Dive: Equipment Specs – Application Information

Best Practices for Submitting Energy Storage Equipment Specifications and NRTL Certifications

Document	Requirement	Recommendation
Energy Storage Calculation Worksheet	Not required, recommended for every energy storage application	Recommended upload as an ad-hoc document to expedite review process.

Deeper Dive: Energy Storage Metering & Monitoring

Energy storage projects rated 30kW or greater are subject to a performance-based incentive (PBI)

- 50% of the final incentive is paid when the ICF and inspection are approved. The remaining 50% is paid annually based on the performance of the system. For non-residential systems, full payment is expected if the project meets the expected operational requirements of 130 full discharges per year.

A “full discharge” is the equivalent of discharging the SGIP-incentivized energy capacity, whether it is during a single or multiple discharges

Deeper Dive: Energy Storage Metering & Monitoring

All energy storage systems, regardless of system size or customer class, are required to discharge a minimum number of full discharge cycles per year (proposed 2017 SGIP Handbook, section 5.3.3):

- Non-residential systems must discharge at least 130 full discharges per year
- Residential systems must discharge a minimum of 52 full discharges per year

Deeper Dive: Energy Storage Metering & Monitoring

PBI Reporting Requirements vs Operational Data Reporting

PBI Metering and Reporting	Standard Operational Requirements
Purpose: used to calculate incentive funds based on the performance of the system	Purpose: ensure the project is meeting SGIP's operational requirements
Only applies to project 30kW and greater	Applies to ALL energy storage projects
Customers must contract with an approved SGIP Performance Data Provider	The customer or system owner may self-submit the data

Deeper Dive: Energy Storage Metering & Monitoring

PBI Reporting Requirements vs Operational Data Reporting

PBI Metering and Reporting Requirements	Standard Operational Requirements
Data must comply with the PBI File Format Specification and pass database validations	Data must be provided upon request (emailed, zipped file of 15 minute interval data) for up to 5 years after project approval
Data must be uploaded monthly to the SGIP database and payments are issued annually	Data must be submitted within 15 days of the request to the Program Administrator, the California Public Utilities Commission, or the SGIP Measurement and Evaluation Contractor

Deeper Dive: Energy Storage Metering & Monitoring

PBI Reporting Requirements vs Operational Data Reporting

PBI Metering and Reporting Requirements	Standard Operational Requirements
The meter used to report data must be listed on the CEC's list of Eligible System Performance and Revenue Grade Meters	System owner and/or Host customer have the tools to control the usage of the system when operating in parallel with the grid. Additional metering may be required if the storage system is not equipped to provide the data.

WEST LA BASIN LOCAL RELIABILITY AREA

Lottery Process – Energy Storage Priority Projects

- Energy storage projects located within the service territory of Los Angeles Department of Water and Power.
- *Energy storage projects located within the West Los Angeles Local Reliability Area of Southern California Edison's service territory. (The West LA Local Reliability Area zip code list and interactive map is available at www.sce.com/sqip).*
- Energy storage systems paired with an on-site renewable generator and claiming the Investment Tax Credit (ITC) or, if not claiming the ITC, charging a minimum of 75% from the on-site renewable generator.



WEST LA BASIN LOCAL RELIABILITY AREA

Energy storage projects located within the West Los Angeles Local Reliability Area

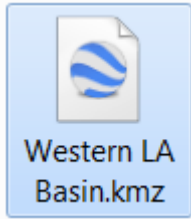
- The West LA Local Reliability Area is within the electrical service area of the West LA Basin High Voltage Substation or a lower voltage substation that electrically connects to a West LA Basin High Voltage Substation.
- SCE will maintain a list that identifies zip codes located within these substation areas.
- It is possible that zip codes listed would be partially within the West LA Local Reliability Area.
- An interactive map will be provided that will show the boundary of the West LA Local Reliability Area.
- The PAs will provide a link on their respective SGIP webpages.



WEST LA BASIN LOCAL RELIABILITY AREA

Interactive Map of the West LA Basin Local Reliability Area

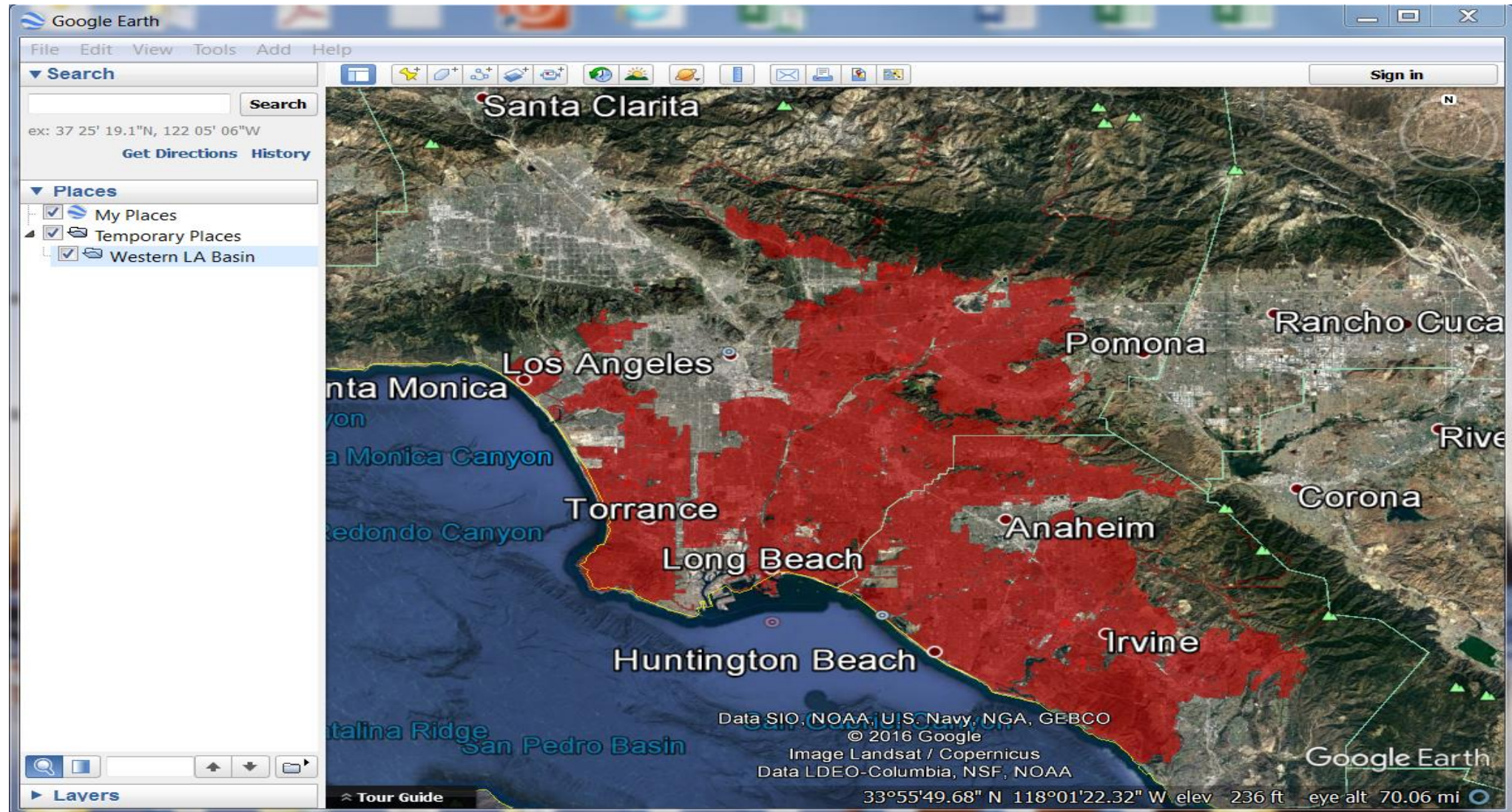
- Google Earth is required to use the interactive map.



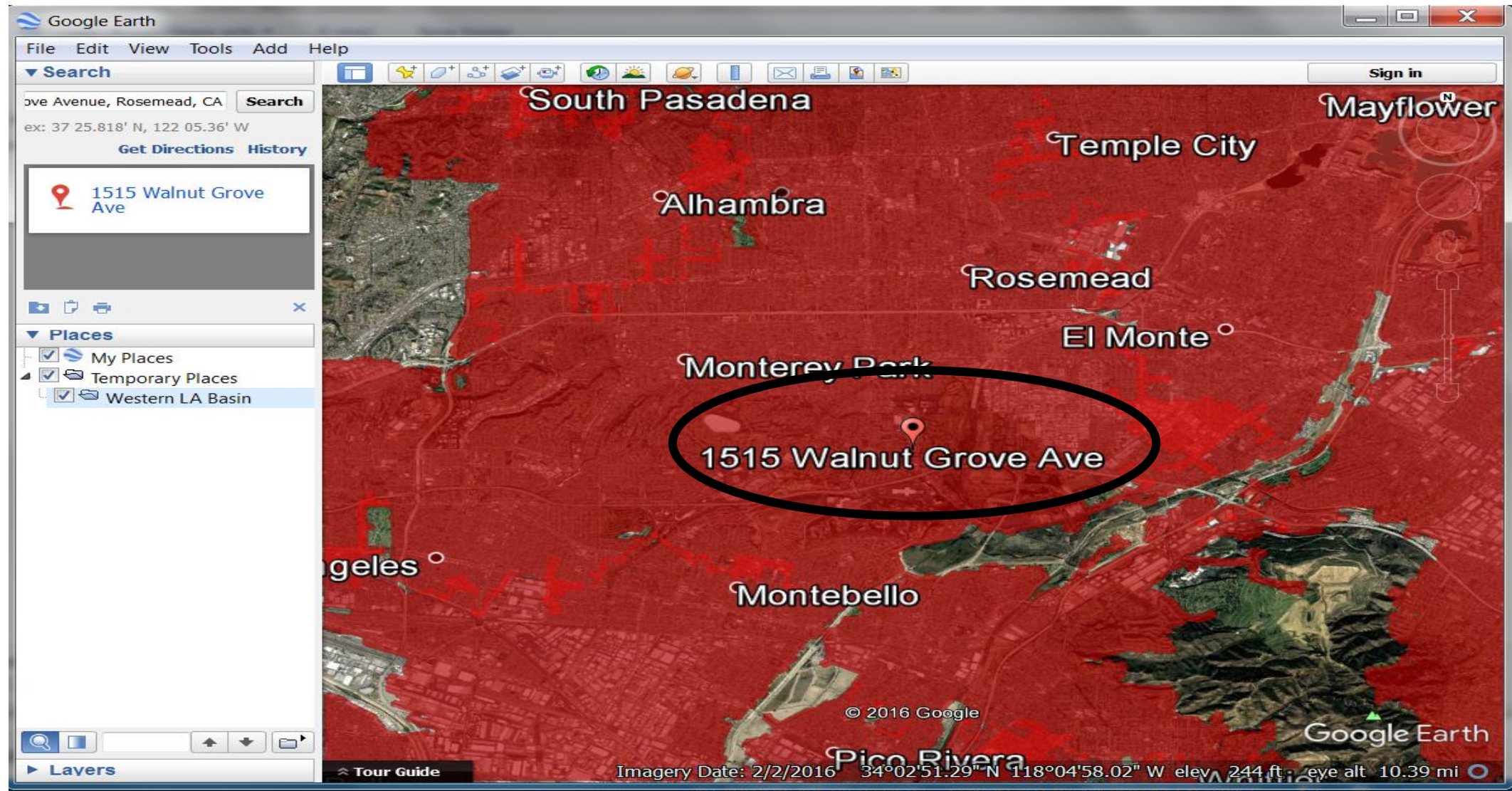
- A map overlay is used in conjunction with Google Earth
- The overlay outlines the West LA Basin Local Reliability Area.
- The applicant enters a site address to the interactive map. A plot point of the site address will show if it falls within the West LA Basin Local Reliability Area.
- SCE will verify submitted applications that claim site address in within the West LA LRA.



WEST LA BASIN LOCAL RELIABILITY AREA



WEST LA BASIN LOCAL RELIABILITY AREA



Developer Cap: New Rules and Application Form

Developer

- A Developer is the corporate entity that holds the contract for purchase and installation of the system, and/or alternative System Ownership Agreement (such as a Power Purchase Agreement) with the host customer and handles the project's development activities.
- The Developer must fully disclose their participation in developing the project and/or ownership in the project
- Developer cap will apply to any combination of affiliated developers under same majority ownership.



Developer Cap: New Rules and Application Form

Developer Cap

- Any single Developer is limited to 20% of the SGIP for a given budget category in each statewide incentive step.
- Applicants may not submit applications for Developers in excess of the statewide cap. Program Administrators shall not issue reservations to projects by a Developer that has exceeded the 20% cap.
- Developer cap will be calculated separately for generation projects, large energy storage projects, and small energy storage projects.
- The Developer cap will be established by budget step and posted prior to program opening. (Developer cap remains fixed for each budget step, even if available funds change.)



CA Manufacturer: New Rules and Application Form

CA Manufacturer Rules

Per the CPUC's Resolution E-4824, all new projects seeking the California supplier 20% incentive adder must demonstrate that at least 50% of its capital equipment value is manufactured by an approved California manufacturer. Prior approval as an approved California manufacturer is insufficient and all manufacturers must meet the new requirements by June 23, 2017 in order for a project to receive the 20% incentive adder.



CA Manufacturer: New Rules and Application Form

CA Manufacturer Rules

Before June 23, 2017, projects may include the 20% adder to their incentive if they apply with currently-eligible CA Suppliers. However, in order for these projects to receive the 20% adder at the time of payment, the equipment manufacturer must meet the new CA Manufacturer requirements by the time the project reaches the Incentive Claim stage. All projects using equipment from manufacturers that are not eligible for the adder under the new requirements will not receive the 20% adder at the time of payment, even if they applied before June 23, 2017 with a then-eligible CA Supplier.



CA Manufacturer: New Rules and Application Form

CA Manufacturer Form

California Manufacturer Application Self-Generation Incentive Program

Manufacturers seeking to qualify for California Manufacturer status will be required to submit this application. See section 3.1.3.1 *California Manufacturer Eligibility Criteria and Verification*, section 3.1.3.2 *Project Equipment Verification*, and section 3.1.3.3 *How to Determine Value* in the 2017 SGIP Handbook for more details.

This form is for initial eligibility of California Manufacturers and their equipment. If an approved manufacturer wishes to qualify new equipment in the future, that new equipment must be approved by submitting the *California Manufactured Equipment Application* form.

For approval of the manufacturer, the following documents must be submitted:

- This application form completed and signed.
- Copies of license(s) to conduct business in California.

Company Name: _____

California Manufacturing Facility Name: _____

Facility Location:

Street: _____

City, State, Postal Code: _____

Facility Contact:

Full Name: _____

Telephone: _____

Email: _____

Facility Information:

Number of Employees: _____

Year Established: _____

Description of Products Manufactured at this Location: _____

Description of Manufacturing Processes at this Location: _____



California Manufacturer Application Self-Generation Incentive Program

For approval of individual equipment, the following information must be provided:

SGIP Equipment Description:

Type (choose one): ☐ Wind, ☐ Waste Heat to Power, ☐ Pressure Reduction Turbine, ☐ Internal Combustion Engine, ☐ Microturbine, ☐ Gas Turbine, ☐ Steam Turbine, ☐ Fuel Cell, ☐ Energy Storage

Subsystem Type (choose one per row)	Manufacturer Company Name	Make	Model	Capital Cost ¹	Location Manufactured
<input type="checkbox"/> Generator/Prime Mover <input type="checkbox"/> Ancillary equipment <input type="checkbox"/> Energy storage medium <input type="checkbox"/> Inverter <input type="checkbox"/> Controller					
<input type="checkbox"/> Generator/Prime Mover <input type="checkbox"/> Ancillary equipment <input type="checkbox"/> Energy storage medium <input type="checkbox"/> Inverter <input type="checkbox"/> Controller					
<input type="checkbox"/> Generator/Prime Mover <input type="checkbox"/> Ancillary equipment <input type="checkbox"/> Energy storage medium <input type="checkbox"/> Inverter <input type="checkbox"/> Controller					
<input type="checkbox"/> Generator/Prime Mover <input type="checkbox"/> Ancillary equipment <input type="checkbox"/> Energy storage medium <input type="checkbox"/> Inverter <input type="checkbox"/> Controller					
<input type="checkbox"/> Generator/Prime Mover <input type="checkbox"/> Ancillary equipment <input type="checkbox"/> Energy storage medium <input type="checkbox"/> Inverter <input type="checkbox"/> Controller					

Signature: _____

Name: _____

Title: _____

Date: _____

Minimum Renewable Fuel Blending Requirement

Final Resolution E-4824 Ordering Paragraph 2:

“The Program Administrators (PAs) must change their biogas adder calculation so that only the amount of biogas used that exceeds the minimum required by the biogas blending rule for that program year is used to determine the total biogas adder incentives.”



Incentive Calculations

Incentives will be calculated according to system size, fuel type, and amount of renewable fuel.

Projects Using The Minimum Blending Requirement

Projects using only the minimum renewable fuel requirement will only receive an incentive for the generation capacity. In this case, the incentive is calculated by multiplying the rated capacity of the system by the incentive rate for the appropriate technology type.

$$\textbf{\textit{Incentive = rated capacity * incentive rate}}$$



Incentive Calculations

Example 1: A 100 kW fuel cell project applying in 2017, fueled with 10% renewable fuel in Step 1.

Assumptions:

- 2017 projects are required to use 10% minimum renewable fuel
- Step 1 fuel cell funding receives \$.60/watt

Incentive calculation:

- 100,000 watts (rated capacity) * \$.60/watt = \$60,000.00

Incentive Calculations

Projects Using Above The Minimum Blending Requirement (Up To 100% Renewable)

Incentives are calculated by multiplying the rated capacity of the system by the technology incentive rate, plus the rated capacity of the system, multiplied by the percentage of renewable fuel above the minimum, multiplied by the renewable fuel adder rate (\$.60/watt).

$$\text{Incentive} = (\text{rated capacity} * \text{incentive rate}) + (\text{rated capacity} * \% \text{ above min RN Fuel} * \text{RN incentive})$$



Incentive Calculations

Example 2: A 100 kW fuel cell on-site project applying in 2019, using 100% renewable fuel in Step 1.

Assumptions:

- 2019 projects are required to use 50% minimum renewable fuel
- 2019 projects using 100% renewable fuel would only be paid for the additional 50%
- Step 1 fuel cell funding receives \$.60/watt

Incentive calculation:

- 100 kW fuel cell = $(100,000 \text{ watts} * \$0.60/\text{watt}) + [(100,000 \text{ watts} * .50) * \$0.60/\text{watt}]$
= (\$60,000 technology incentive) + (\$30,000 renewable adder) = \$90,000.00

Participant Performance and Infractions

Participant Performance

All participants are expected to follow program rules and eligibility requirements. Failure to do so will result in warnings and/or infractions. The PAs will exercise their judgment in issuing warnings and assessing infractions.

Infractions

Infractions are any actions that circumvent program policy or requirements, or have the intent to do so, in addition to low performance levels. Infractions can be issued to any participant. The Program Administrators will evaluate program infractions which may include gross negligence or intentional submission of inaccurate project information. Program infractions may be determined at any stage of the SGIP process and are applicable statewide.



SGIP Online Database Workshop

What's New for 2017

March 10, 2017

PRESENTED TO

SGIP Public Workshop

Public Participants

PRESENTED BY

Andrea Vas

Energy Solutions

What's New for 2017

- Applicant Account Registration
- Lottery Process
 - New Status Flow
 - Lottery Trigger
 - Lottery Randomization
- Application Submission
- Application Changes
- Calculators
- Developer Cap
 - Developer Cap Management
 - New Panel: Developer Contact
- Budget Reports
 - Incentive Step Tracker
 - Incentive Rates Table
 - Developer Tracker



APPLICANT ACCOUNT REGISTRATION



Applicant Account Registration

- New Applicant Companies must send a registration request through selfgenca.com/register

One account per Applicant Company

Energy Solutions handles registrations

Self-Generation Incentive Program

[Login](#)[About SGIP](#)[Resources](#)[Calculator](#)[Contact](#)

New Applicants may request a new account for their Applicant Company using the online request form available here. SGIP Support staff will assist with account creation during normal business hours.

1. Company Profile Details

Applicant Company Name:

or N/A:

☐

Mailing Address: *

Mailing Address(line2):

City: *

State: *

Zipcode: *

Parent Company Name:

2. Account Admin Details

Username: *

Name(First Last): *

Phone: *

Mobile:

Email: *

[Submit Request to SGIP Support](#)

Applicant Settings

- Existing Applicant Admins can add new users to their SGIP Applicant Account through Settings page.

Dashboard ▾

Settings

Resources ▾

Applicant Company Settings (Applicant Admin)

Edit Company

Applicant Company Name:

Test.Company

Address:

123 Main Street

Address (line 2):

City:

Somewhere

State:




CA

Zipcode:

90210

Parent Company:

Account Management

User Name	Contact Name	Phone	Mobile	Email	
andrea.test	test applicant	123-456-7890		avas@energy-solution.com	
emily.test	Test User	123-456-7890		31.kona@gmail.com	
aimee.test	Aimee Test	123-456-7890		test-account@gmail.com	

[\(+ Add New User\)](#)

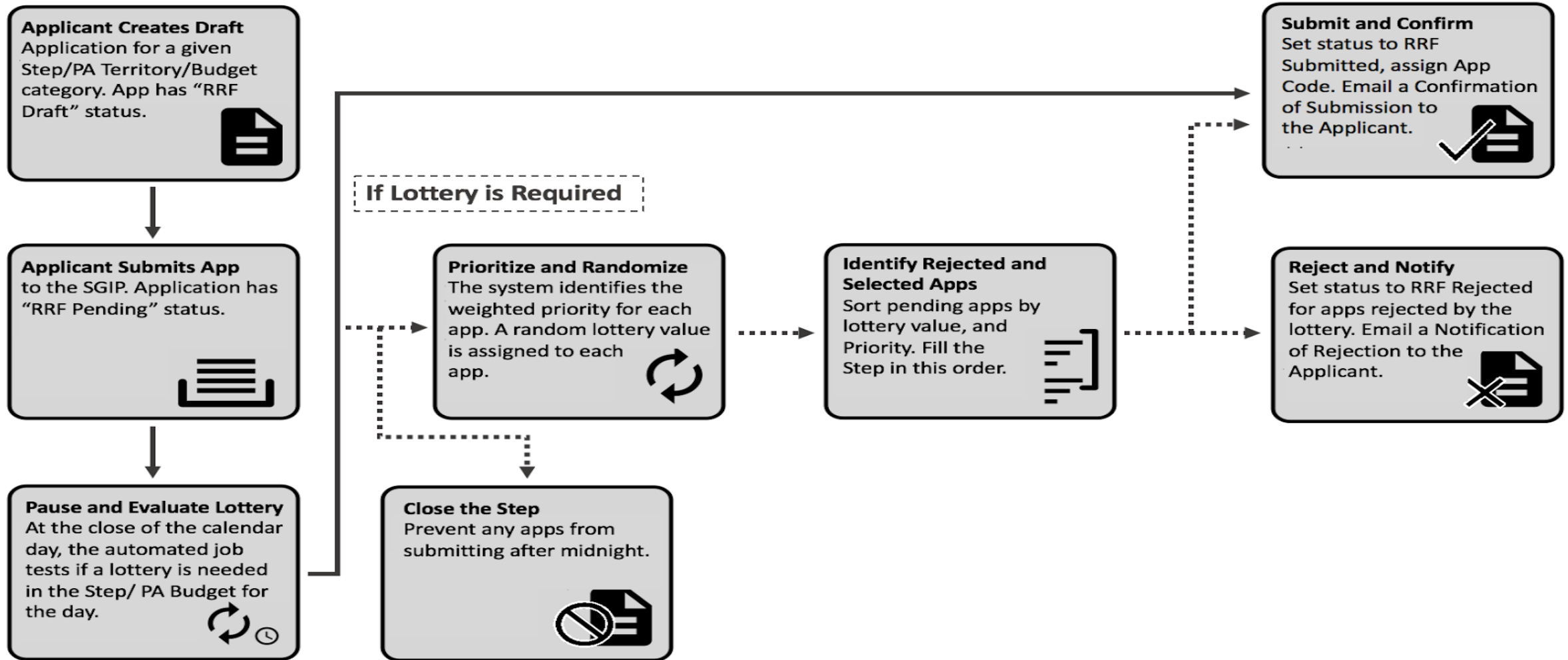
Users set their own password through “[Forgot Password?](#)” link on homepage



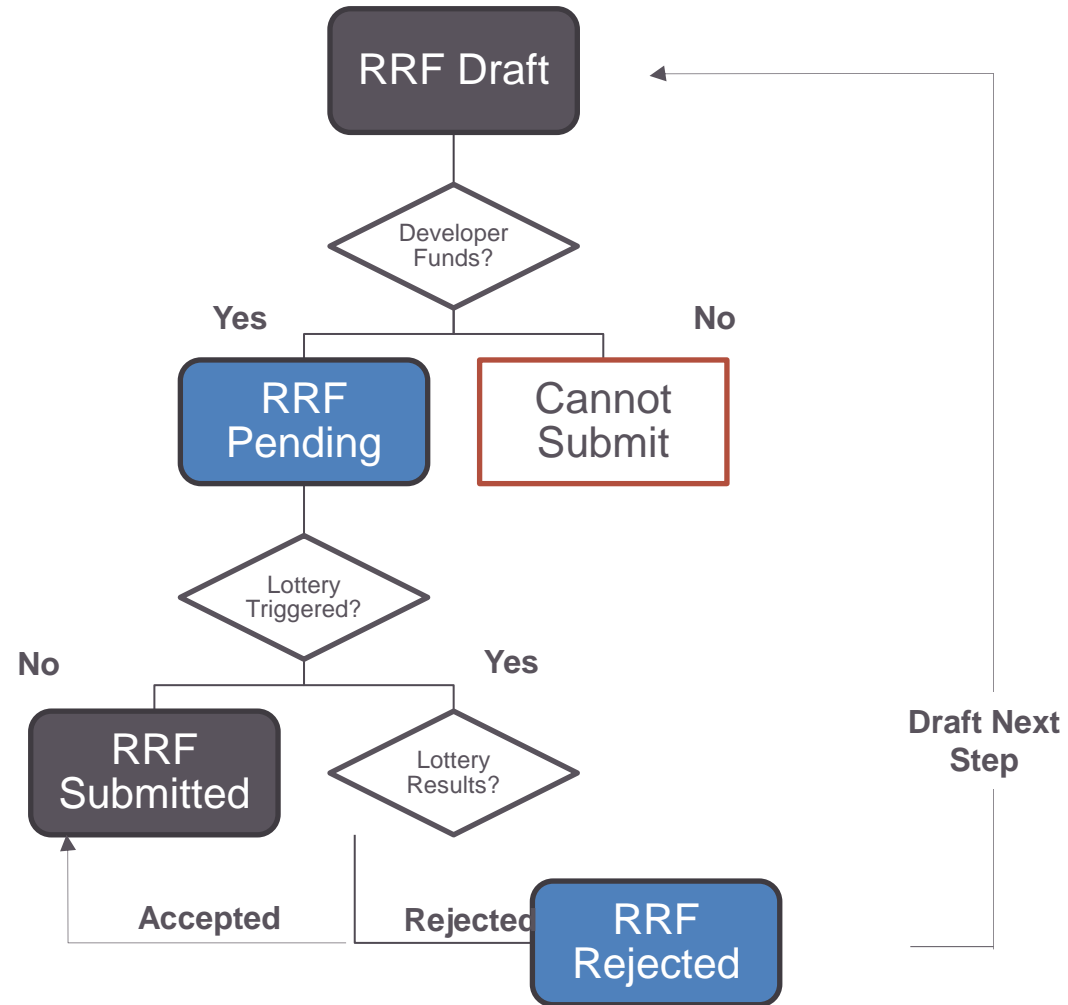
LOTTERY PROCESS



Lottery Process



New Statuses



Dashboard

Jane Doe Enterprises

+ Create New

Show 10 entries

Search:

Application Number	Host Customer	Developer	Stage/Status	Status Date	Next Due	
Draft-4321	Sample Name	N/A	RRF Draft	05/13/17		<button>Submit</button>
Draft-4322	Sample Name 124 Farm Lane City, CA 99999	Developer A Co.	RRF Draft	05/13/17		<button>Submit</button>
Draft-4323	Sample Name 121 Farm Lane City, CA 99999	Another Developer	RRF Draft	04/01/17		<button>Submit</button>
Draft-4325	Sample Name 7 Industrial Drive City, CA 99999	Dev-Eloper Inc.	RRF Draft	mm/dd/yy		<button>Submit</button>
Pending-4319	Sample Name 100 Industrial Drive City, CA 99999	Dev-Eloper Inc.	RRF Pending	04/20/17		
Pending-4320	Sample Name 1 Industrial Drive City, CA 99999	Developer A Co.	RRF Pending	05/30/17		



Opens in New Tab

Submit Application

Instructions

Carefully review your application before proceeding. Once you submit your application, you will not be able to make changes or provide additional documentation for this application milestone unless requested by the PA.

Applications remain in “RRF Pending” Status until assigned to an incentive step. You will receive a notice when your project is assigned to step with an Application ID. If a lottery is conducted and your application is not selected, you will receive a notice confirming that the application has reverted back to RRF Draft status and you may resubmit your application when the next step opens.

All Applicants must agree to the Terms of Use and click the Submit button below to submit your application to the Program Administrator. Any violation of the Terms of Use or intent to circumvent the program rules may result in disciplinary action, including expulsion from the program.

NOTE: After a project is assigned to an incentive step, the application fee check must be mailed to the Program Administrator within 7 calendar days.

☐ I agree to the [Terms of Use](#)

Check my Application

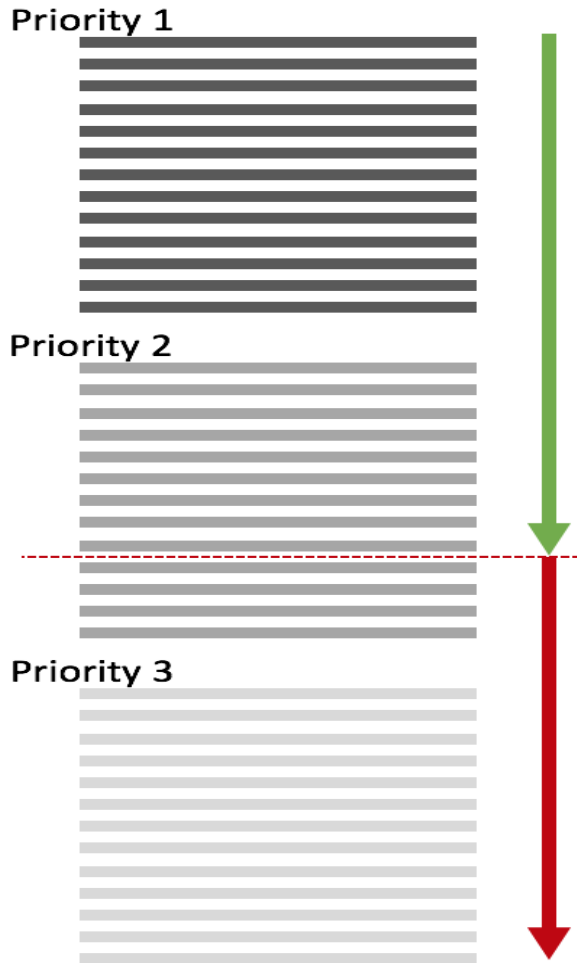
Submit

Available if the step program for the selected PA is open for submissions

Edit Application
Documents
Communications
Submit



Lottery per Program



- Group by priority
- Randomize order within priority
- Accept applications that can be entirely funded by remaining budget
- The last application is a “straddler”
 - PA will contact straddler to offer the partial incentive.
 - If straddler rejects the offer, the funds rollover to the next step.
- Remaining applications are rejected



Return to Draft

- Dashboard
- Settings
- Resources

App List | Application | Submit

Current Status: RRF Rejected

Set Application Back to Draft

Your application was rejected by the automated lottery process. If you would like to submit this application for the next open step, please click the button above to set application back to Draft.

Application Details

Documents

Communications

Submit



Date Printed: May 2, 2017
Program Year: 2017

Self Generation Incentive Program

Reservation Request Form

Instructions:
This Self-Generation Incentive Program (SGIP) Reservation Request Form is to be completed and submitted to the address listed to the left. Refer to the SGIP Program Handbook for instructions, and include all required attachments with your submittal. Incomplete applications will result in a suspended application. Upon successful submission of all reservation request information and documents, the Applicant will receive notice from the SGIP Program Administrator that their rebate has been reserved.

Host Customer

Contact Name	Sandy Storage	Mailing Address	100 Sample Lane
Company Name	Store-it-All	City, State Zip	City, CA, 90000
Parent Company Name		Phone	555-555-5555
Sector	Commercial	Email	sample@email.com
NAICS	unknown		



APPLICATION CHANGES



Application Process

- Process that has not changed:
 - Provide all required fields*
 - Upload all required documents *
 - Use “Check My Application” button to ensure application is complete
 - Watch the 2016 SGIP Tutorial
- Process that will change:
 - Dashboard columns
 - New “smart display” panels
 - Applications cannot be submitted between midnight and 1 AM.
 - *Approved CA Manufactured Equipment?*
 - Moved to Project Costs panel
 - Validation of Approved CA Manufacturer in June



New Panel: Application Type

Dashboard

Settings

Resources

App List | Application | Submit

Current Status: RRF Review

Application Type

Program Administrator*

Utility Territory

Application Type*

Energy Storage

NOTES

Provide this preliminary information to determine the applicable panels required for your application type.

Budget Category	Incentive Step	Incentive Rate
Small Residential Storage	2	\$0.45 /Wh

Remaining Statewide Developer Funds

\$276,872.43

Calculated SGIP Incentive

\$128,000.00

Save

Edit Application

Documents

Communications

Submit



Upload all required documents

Dashboard ▾SettingsResources ▾

App List | Application | Documents

Current Status: RRF Draft

[Edit Application](#)
[Documents](#)
[Communications](#)
[Submit](#)

Documents listed here are required in order to submit your application. Upload only one file per document type. If you have multiple files, like for Equipment Specifications, you may upload a .zip folder.

Visit the Resources tab to download blank copies of requested forms below.

The application cannot be submitted until all required documents have a valid attachment. Documents will be reviewed thoroughly, any document that is incomplete will be rejected and may impact the eligibility of the application.

Please refer to the 2016 SGIP Handbook and contact your Program Administrator if you have any questions about the documentation requirements.

RRF ▾

Reservation Request Form *

The RRF is a document you fill out online. Click **Edit Application** to continue.

When your form is complete, click **Print & Sign** to get a printable version of the form. Attach a signed copy of the form with **Upload New**.

Edit Application

Print & Sign

Upload New

Equipment Specifications (Generating System Info) *

Upload New

Preliminary Monitoring Plan (>=30 kW) *

Upload New

Proof of Electric Service *

Upload New

Electric Load Documentation *

Upload New

Can't Print RRF until application has no errors



Proposed System Information - Generation

Proposed System Information - Generation

Equipment Technology*

Renewable Fuel Type*

% of Fuel From Renewable Source

% of Fuel From Non-renewable Source

<100 - Renewable> %

Is this an "Export to Grid" Project?*

☐ Yes ☒ No

Is there currently, or will there be by the time of inspection, other self-generation or storage equipment onsite?*

☐ Yes ☒ No

Does the PRT operate on pressure created by a renewable-fueled primary process?

☐ Yes ☒ No

Renewable Fuel Source

Non-renewable Fuel Type

Annual Onsite Load

kWh/yr

Paired Equipment Type

NOTES

Enter information about the proposed generating system that is applying for an SGIP incentive.

Please refer to the SGIP Handbook for the minimum fuel blending requirements per program year.

Directed renewable fuel must be injected into a common carrier pipeline system that is either within the Western Electricity Coordinating Council (WECC) region or interconnected to a common carrier pipeline system located within the WECC region

Report details of the paired system in the Paired Onsite System Information Panel.

Export to Grid projects are sized based on the Eligible Capacity restrictions in the SGIP Handbook.

Save



Proposed System Information – Energy Storage

Proposed System Information - Energy Storage

Equipment Technology*

Manufacturer*

Total Rated Capacity*

kW

Discharge Hours Duration*

Hrs

Is there currently, or will there be by the time of inspection, other self-generation or storage equipment onsite?*

☐ Yes ☒ No

Check the box to confirm that the system will be operated in accordance with the program's minimum operating and reporting requirement.*

☒ I Agree

Model*

Total Energy Capacity *

kWh

Will the energy storage system be charged at least 75% from onsite renewables?

☐ Yes ☒ No

NOTES

Enter information about the proposed storage system that is applying for an SGIP incentive.

Total Rated Capacity (kW) = Energy Capacity (kWh DC) x inverter efficiency (%) / Discharge Duration (hours)

Total Energy Capacity (kWh) = # Batteries x Amp-hour rating of each battery x System voltage

Report details of the additional onsite system(s) in the Other Onsite System Information Panel.

Save



CALCULATORS



Incentive Calculation - Generation

Generation Incentive Calculator		Current Step: 2			Incentive Rate: \$0.5 per Watt	
Equipment Incentive		0-1 MW	>1-2 MW	>2-3 MW	Total Dollars	
Incentive Rate [\$/W]		\$0.50	\$0.38	\$0.25		
Previous SGIP Capacity [W]		0	0	0		0
Capacity [W]		1,000,000	1,000,000	1,000,000		3,000,000
Eligible Capacity [W]		1,000,000	1,000,000	1,000,000		3,000,000
Base Equipment Incentive		\$500,000.00	\$380,000.00	\$250,000.00	\$	1,130,000.00
CA Manufacturer Adder		\$100,000.00	\$76,000.00	\$50,000.00	\$	226,000.00
Max Equipment Incentive		\$600,000.00	\$456,000.00	\$300,000.00	a)	\$1,356,000.00
Biogas Adder						
Incentive Rate [\$/W]		\$0.60	\$0.45	\$0.30		
Eligible Capacity [W]		1,000,000	1,000,000	1,000,000		
Pro-Rated Biogas Capacity		980,000	980,000	980,000		
Pro-Rated Biogas Adder Ammount		\$588,000.00	\$441,000.00	\$294,000.00	b)	\$1,323,000.00
DBG Premium Cap					c)	
Adjusted Biogas Adder					[Lesser of b or c] d)	\$1,323,000.00
Other Incentives		Total Dollars			Impact on SGIP Incentive	
Other IOU Incentive (100%)		\$6,000.00			e) -\$	6,000.00
Other Non-IOU Incentive (50%)		\$0.00			f)	\$0.00
Non-Ratepayer Incentive (0%)		\$0.00				
Investment Tax Credit (0%)		\$400,000.00				
Adjusted Equipment Incentive					a+e+f = g)	\$1,350,000.00
Total Other Incentives	h)	\$406,000.00				
SGIP Incentive Adjustments		Equipment Incentive + Biogas Adder +			Total Other Incentive <= Incentive Cap(s)	
Project Incentive Cap (Equipment and Biogas)	i)	\$1,350,000.00	\$1,323,000.00		\$5,000,000.00	j)
Eligible Cost Cap (All Incentives)	i+j=k)	\$1,350,000.00	\$1,323,000.00	\$406,000.00	\$2,000,000.00	l) -\$
Equipment Incentive					m)	\$271,000.00
Biogas Incentive						\$1,323,000.00
Calculated SGIP Incentive						\$1,594,000.00

Footnotes:

* j = 0 if g+d <= \$5M, otherwise k = \$5M - (g+d)

* l = 0 if g+d+h <= Total Eligible Cost, otherwise l = Total Eligible Cost - (g+d+h)

* m = k - l



Incentive Calculation - Storage

Incentive Calculation	Current Step: 3			Incentive Rate: \$0.4 per Watt-hour	
Reference Table	0-2 MWH	>2-4 MWH	>4-6 MWH		
0-2 HOURS	100%	50%	25%		
2-4 HOURS	50%	25%	12.50%		
4-6 HOURS	25%	12.50%	6.25%		
Existing Onsite Equipment Off-Set	0-2 MWH	>2-4 MWH	>4-6 MWH		
0-2 HOURS	1,250,000	-	-		
2-4 HOURS	750,000	500,000	-		
4-6 HOURS	-	-	-		
Base Equipment Incentive					\$700,000.00
CA Manufacturer Adder					0
Max Equipment Incentive				a)	\$700,000.00
Other Incentives	Total Dollars			Impact on SGIP Incentive	
Other IOU Incentive (100%)	\$6,000.00			b)	-\$6,000.00
Other Non-IOU Incentive (50%)	\$0.00			c)	\$0.00
Non-Ratepayer Incentive (0%)	\$0.00				
Adjusted Equipment Incentive				a+b+c = d)	\$694,000.00
Total Other Incentives	e)	\$6,000.00			
SGIP Incentive Adjustments	Equipment Incentive + Total Other Incentive			<= Incentive Cap(s) Incentive Adjustment	
Project Incentive Cap (Equipment)	f)	\$694,000.00		\$5,000,000.00	g) \$0.00
Eligible Cost Cap (All Incentives)	f+g= h)	\$694,000.00	\$6,000.00	\$1,500,000.00	i) \$0.00
Equipment Incentive					j) \$694,000.00
Calculated SGIP Incentive					\$694,000.00

Footnotes:

* g = 0 if f <= \$5M, otherwise g = \$5M - f

* i= 0 if h+i <= Total Eligible Cost, otherwise i = Total Eligible Cost - (h+i)

* j = h + i



DEVELOPER CAP




Developer Cap Management

- Each application must designate one Developer
- Applicant must enter corresponding Developer Key
- Developer Key is provided **only** by the Developer to the Applicant
 - SGIP Support and PAs cannot provide the Key
- Developer must sign Reservation Request Form
- Developer cannot submit requests greater than 20% of statewide step funds for each budget category
 - Developer must manage the list of applications that will be submitted on their behalf towards the cap in a given step
- Developer cannot be changed after RRF is submitted without PA approval



New Panel: Developer Contact

Developer Contact 

Developer Company*

Developer A ▼

Contact Name*

Jane Doe

Mailing Address

123 Main St.

City

Somewhere

Email Address*

jane.doe@job.com

Developer KEY*

1xJ8#kP!sd3

State*

CA

Zipcode*

90210

Phone Number*

510-837-5201

Save

NOTES

You must designate a Developer Company from the provided list, even you are both the applicant and the developer. You must also enter the corresponding key matching that Developer designation to proceed to submit this application.

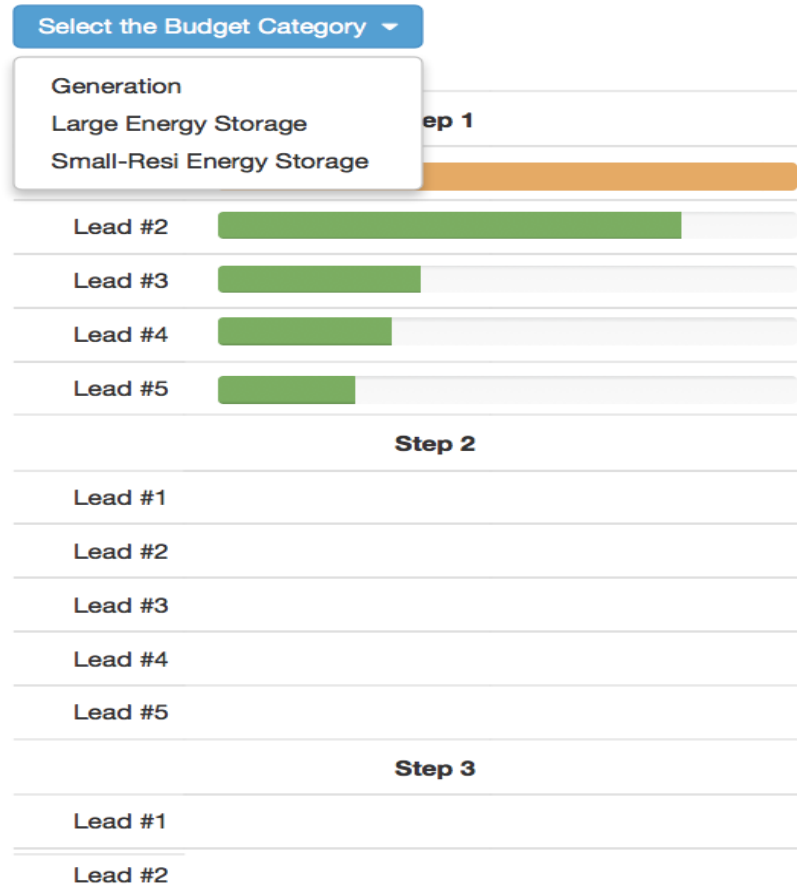
All participating Developers must be registered with SGIP Program Administrators. The reigstration form can be found on the Homepage.



Developer Tracker

Statewide Developer Cap

This report does not include applications submitted today or pending lottery results.



- Developers can come here to track their allocations towards the Developer Cap
- “RRF Pending” apps not included until apps are in RRF Submitted or beyond
- Developer Cap is 20% of statewide funds per step, per budget category
- Developer Cap is enforced at the Submit Button



BUDGET REPORTS



Incentive Step Tracker

Statewide Summary - Program Metrics



Incentive Step Tracker

Select a Budget Category from the dropdown below to view the Incentive Step Tracker for the SGIP. The tracker is updated nightly, or in the case of a lottery, after the results are published. You can click on the category headers to view additional details.

Select the Budget Category ▼

	PG&E	SCE	CSE	SoCalGas
Active Step	1	2	1	2
Step Opening Date	5/01/2017	5/15/2017	5/01/2017	5/18/2017
Days in Step	18	3	18	0
Authorized Collections	\$ 300,000.00	\$ 1,500,200.00	\$ 1,000,200.00	\$ 500,000.00
Reallocations	\$ 10,000.00	\$ 0.00	\$ 50,000.00	\$ 0.00
Authorized Rollover	\$ 0.00	\$ 200,000.00	\$ 0.00	\$ 50,000.00
Allocated Funds	\$ 110,000.00	\$ 500,200.00	\$ 1,000,200.00	\$ 500,200.00
Available Funds	\$ 200,000.00	\$ 1,200,000.00	\$ 50,000.00	\$ 49,800.00



Incentive Rates Table

Incentive Rates for Current Steps

The equipment and biogas incentive rates per PA territory are displayed in the table below. The table references the incentive rates for the currently active step in each PA territory and is updated nightly, or in the case of a lottery, after the results are published.

	PG&E	SCE	CSE	SoCalGas
Generation	Step 3	Step 2	Step 2	Step 1
Wind	\$0.70/W	\$0.80/W	\$0.80/W	\$0.90/W
Other Generation	\$0.40/W	\$0.50/W	\$0.50/W	\$0.60/W
Max Biogas Adder*	\$0.60/W	\$0.60/W	\$0.60/W	\$0.60/W
Large Energy Storage	Step 2	Step 2	Step 1	Step 1
Energy Storage**	\$0.45/Wh	\$0.45/Wh	\$0.50/Wh	\$0.50/Wh
Energy Storage + ITC**	\$0.31/Wh	\$0.31/Wh	\$0.36/Wh	\$0.36/Wh
Small Residential Energy Storage	Step 1	Step 1	Step 1	Step 1
Energy Storage**	\$0.50/Wh	\$0.50/Wh	\$0.50/Wh	\$0.50/Wh

* Biogas adder does not apply to wind and waste heat to power. Final biogas adder will be prorated based on fuel blending and minimum fuel blending requirements.

** Energy Storage rates are subject to change if all PA territories close a step within 10 days of the Step Opening Date



QUESTIONS?



Break



Next Steps for SGIP

Proposed Decision of Commissioner Rechtschaffen

- PG&E, SCE, SCG & SDG&E are ordered to collect on an annual basis double the amount collected in year 2008.
- 85% of new funds go to large energy storage; projects greater than 10kW.
- 15% of new funds go to renewable generation projects
- Energy storage funding is apportioned accordingly: Step 1 0%; Step 2 15%, Step 3 30%, Step 4 30%, Step 5 25%.
- Generation funding is apportioned: Step 1 33.3%, Step 2 33.3%, Step 3 33.4%

Total AB 1637 Funds and Allocation: \$249,000,000

- Energy Storage Allocation, 85%: \$196,834,500
- Renewable Generation, 15%: \$34,735,500
- Program Administration: \$17,430,000



Next Steps for SGIP

Stakeholder opinion of Proposed Decision?

- Talk to Patrick Doherty

What energy storage operational rules would you have recommended?

- What performance-based incentive requirements would help energy storage better support the grid or improve the GHG performance?
- Should any changes to PBI/operational requirements be made retroactive?

Opinions on energy storage GHG performance as reported in the Impact Evaluation?

Any other feedback about other aspects of the ACR / Proposed Decision, Program Modifications or the future? Open Forum.....